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## University Physics: A Calculus-Based Survey of Physics

By Professor and Department Chair Mohammad Samiullah

Createspace, United States, 2012. Paperback. Book Condition: New. 277 x 216 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The University Physics provides students with a solid foundation of introductory physics. The complete University Physics covers topics in Mechanics, Gravitation, Waves, Sound, Fluids, Thermodynamics, Electricity, Magnetism, and Optics. Various concepts and ideas of physics are developed starting from a few basic principles. The examples in the book contain both the numerical and the symbolic problems. The level of the rigor is suitable for the students concurrently enrolled in the Calculus sequence in Mathematics. Detailed guided exercises and challenging problems help students develop their skills in problem solving. Volume 1: Fundamentals of Mechanics - Vectors, Kinematics, Newton s Laws of Motion, Impulse, Energy, Rotation Volume 2: Applications of Mechanics - Physics in Non-inertial Frames, Newton s Law of Gravitation, Simple Harmonic Motion, Mechanical Waves, Sound, Stress and Strain in Materials, Fluid Pressure, Fluid Dynamics. Volume 3: Heat, Temperature, Specific Heat, Thermal Expansion, Ideal Gas Law, First Law of Thermodynamics, Work by Gas, Second Law of Thermodynamics, Heat Engine, Carnot Cycle, Entropy, Kinetic Theory, Maxwell s Velocity Distribution. Volume 4: Static Electricity, Coulomb s Law, Electric Field, Gauss s...



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